

# **SYSTEM AND METHOD FOR REMOTELY DETECTING ELECTRIC ARC EVENTS IN A POWER SYSTEM**

## **ABSTRACT OF THE DISCLOSURE**

5           A system is provided for remotely detecting and locating damaged conductors. The system includes at least one slave controller disposed proximate at least one load and electrically connected to the loads via at least one conductor. The slave controller includes at least one solid-state switch capable of controllably altering the input  
10       parameter associated with the loads and the solid-state switches. In this regard, the solid-state switches controllably alter the input current to the loads according to the parameters. The system also includes at least one arc fault detector electrically  
15       connected to the conductors between the slave controller and the loads, where the fault detector is capable of detecting an electric arc event.

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